

Fig. 1A

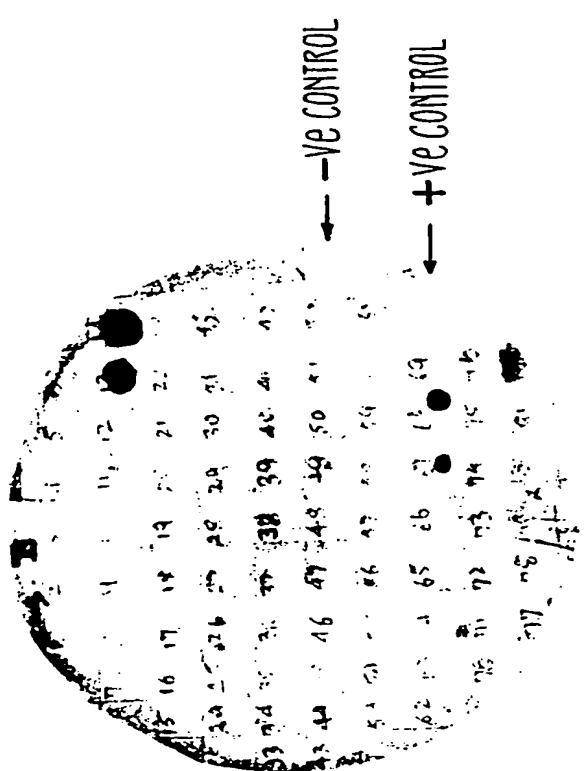
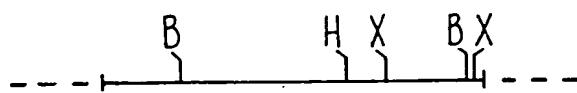
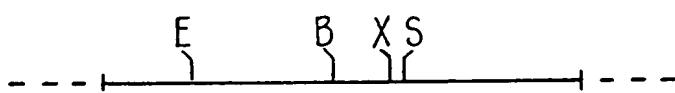


Fig. 1B

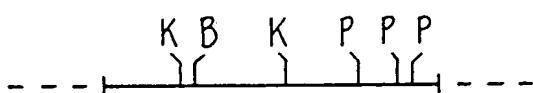
1 kb



Y3275
(12kDa)



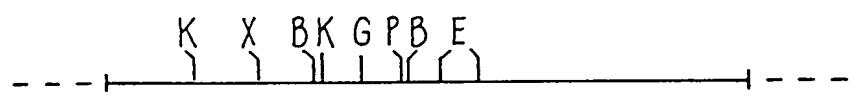
Y3145
(14kDa)



Y3147
(19kDa)



Y3143
(65kDa)



Y3271
(71kDa)

Fig. 2A

1 kb

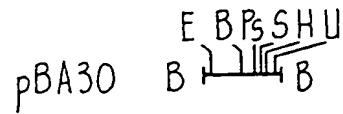
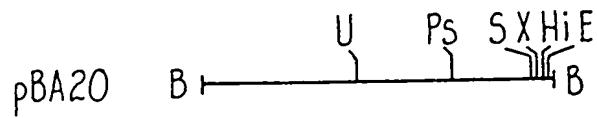
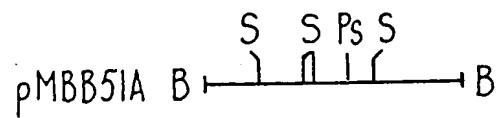
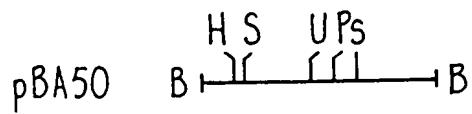


Fig. 2B

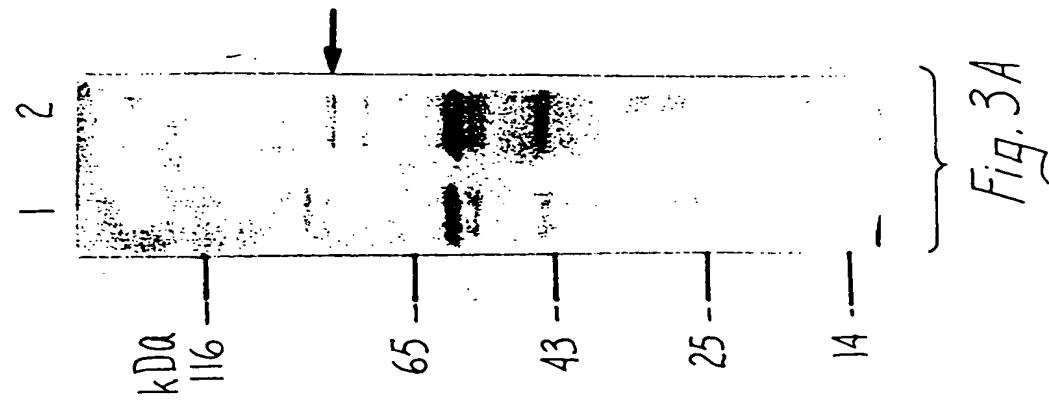


Fig. 3A

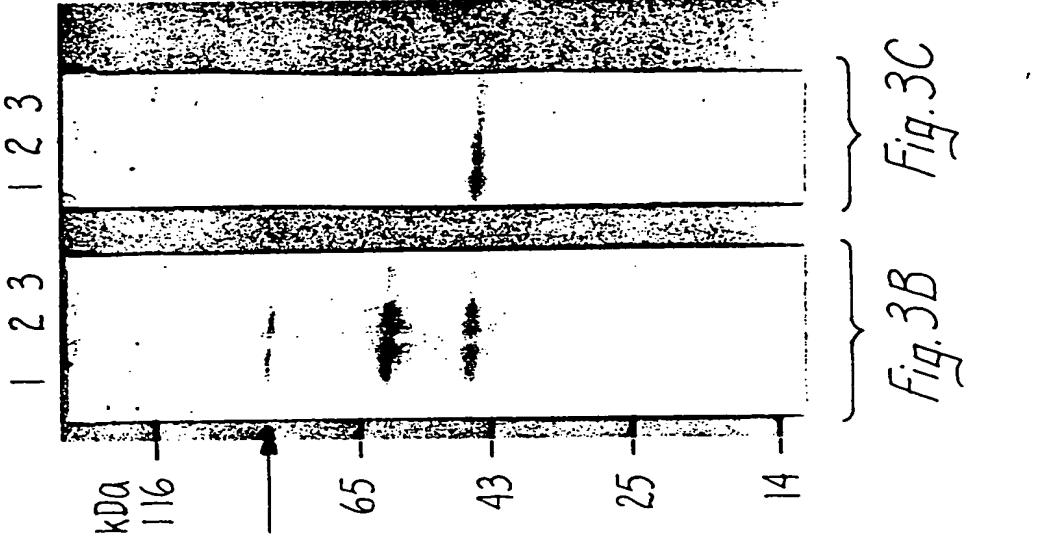


Fig. 3C

Fig. 3B

Fig. 4A

80
GGATCCGGGGTCAATCGATCGGGTCAAAACACGGCCTCGACGGGTTCACGGCTGGGGCTGTCCACCGCCGGGAGGTG
GTGGCCGGCAGCCACGGCATCTA
CTGGCACACGGAACTCGGGGTATGGCGTGAATGGAAAGGGGGTGGGGGAAATCTGGGGTCTGCCTTCGATATCCC
ATGGCTGGTCATTCGGGCTCTCCGATCTCGGGTCAATCGGTTGGACTTCATCGGTTGGCTGGCAGGTGG
-35
480
CGGCCAGTTGGGGGGGGTGTGACGGGACTATCCGGCGGTGGTTC
-10
508
S/D 508
ATG ACG GCG GCC GTG ACC GGT GAA CAC CAC GCG AGT GTG
MET Thr Ala Ala Val Thr Glu Glu His His Ala Ser Val
1
550
CAG CGG ATA CAA CTC AGA ATC AGC GGG ATG TCG TCT GCG TCG TGC GCC CAC CGT GTG GAA
Gln Arg Ile Gln Leu Arg Ile Ser Gly MET Ser Cys Ser Ala Cys Ala His Arg Val Glu
20
600
TCG ACC CTC AAC AAG CTG CCG GGG GTT CGG GCA GCT GTG AAC TTC GGC ACC CCG GTG GCA
Ser Thr Leu Asn Lys Leu Pro Gly Val Arg Ala Ala Val Asn Phe Gly Thr Arg Val Ala
40
650
ACC ATC GAC ACC AGC GAG GCG GTC GAC GCT GCG CTG TGC CAG GCG GTC CGC CGC GCG
Thr Ile Asp Thr Ser Glu Ala Val Asp Ala Ala Leu Cys Gln Ala Val Arg Arg Ala
60
700
GGC TAT CAG GCC GAT CTG TGC ACG GAT GAC GGT CGG AGC GCG AGT GAT CCG GAC GCC GAC
Gly Tyr Gln Ala Asp Leu Cys Thr Asp Asp Gly Arg Ser Ala Ser Asp Pro Asp Ala Asp
80
800
CAC GCT CGA CAG CTG ATC CGG CTA GCG ATC GCC GCG GTG CTG TTT GTG CCC GTG GCC
His Ala Arg Gln Leu Leu Ile Arg Leu Ala Ile Ala Val Leu Phe Val Pro Val Ala
100

Fig. 4B

850 GAT CTG TCG GTG ATG TTT GCG GTC GTG CCT GCC ACG CGC TTC ACC GGC TGG CAG TGG GTG
Asp Leu Ser Val MET Phe Gly Val Val Pro Ala Thr Arg Phe Thr Gly Trp Gln Trp Val 900

900 GCG CCG CGC CAC CAC GCC GCC TCC ATG GAG ACG CTA ATC TCG GTC GGT ATC ACG
Leu Ser Ala Leu Ala Leu Pro Val Val Thr Trp Ala Ala Trp Pro Phe His Arg Val Ala 950

950 ATG CGC AAC GCC CGC CTC GTC ACC TGG GCG TGG CCG TTT CAC CGC GTT GCG CGC
MET Arg Asn Ala Arg His His Ala Ser MET Glu Thr Ile Ser Val Gly Ile Thr 1000

1000 GCC GCC ACG ATC TGG TCG CTG TAC ACC GTC TTC GGC AAT CAC TCC CCC ATC GAG CGC AGC
Ala Ala Thr Ile Trp Ser Leu Tyr Thr Val Phe Gly Asn His Ser Pro Ile Glu Arg Ser 1050

1050 GGC ATA TGG CAG CGC CTG GGA AGC GAT GCT ATT TAT TTC GAG GTC GTC GCG GCG GGT GTC
Gly Ile Trp Gln Ala Leu Leu Gly Ser Asp Ala Ile Tyr Phe Glu Val Ala Gly Val 1100

1100 ACG CTG TTC CTG GTG GCG CGG TAT TTC GAG GCG CGC AAG TCG CAG GCG GGC AGT
Thr Val Phe Val Val Gly Arg Tyr Phe Glu Ala Arg Ala Lys Ser Gln Ala Gly Ser 1150

1150 GCG CTG AGA GCC TTG GCG GCG CTG AGC GCC AAG GAA GTA GCC GTC CTG CTA CCG GAT GGG
Ala Leu Arg Ala Leu Ala Leu Ser Ala Lys Glu Val Ala Val Leu Pro Asp Gly 1200

1200 TCG GAG ATG GTC ATC CCG GCC GAC GAA CTC AAA GAA CAG CAG CGC TTC GTG CTC GAT GGG
Ser Glu Glu MET Val Ile pro Ala Asp Glu Leu Lys Glu Gln Gln Arg Phe Val Val Arg Pro 1250

1250 GGG CAG ATA GTT GCC GCC GAC GGC CTC GAC GGG TCC GCT GCG GTC GAC ATG AGC
Gly Gln Ile Val Ala Ala Asp Gly Leu Ala Val Asp Gly Ser Ala Ala Val Asp MET Ser 1300

1300 GGG CAG ATA GTT GCC GCC GAC GGC CTC GAC GGG TCC GCT GCG GTC GAC ATG AGC
Gly Gln Ile Val Ala Ala Asp Gly Leu Ala Val Asp Gly Ser Ala Ala Val Asp MET Ser 1350

1350 GGG CAG ATA GTT GCC GCC GAC GGC CTC GAC GGG TCC GCT GCG GTC GAC ATG AGC
Gly Gln Ile Val Ala Ala Asp Gly Leu Ala Val Asp Gly Ser Ala Ala Val Asp MET Ser 1400

1400	GGC ACC GGC GAG GCC AAA CCG ACC CCG CGT CGT CCG GGG CAG GTC ATC GGC GGC
Ala MET Thr GLY Glu Ala Lys Pro Thr Arg Val Arg Pro GLY GLY Gln Val Ile GLY GLY	
300	
1450	TTC GCA GTC CTT GAC GGC CGG CTG ATC GTG GAG GCG GCG GCG GTG GGC GGC GAC ACC CAG
ACG ACA GTG CTT GAC GGC CGG CTG ATC GTG GAG GCG CAA AAG GAC GCA CAG CGA	
Thr Thr Val Leu Asp Gly Arg Leu Ile Val Glu Ala Ala Val GLY Ala Asp Thr Gln	
320	
1500	CTA GCC GAC CGG ATC TCC TCG GTG TTT GTT GCT GTG TTG GTT ATC GCG GCA CTA ACC
Phe Ala GLY MET Val Arg Leu Val Glu Gln Ala Gln Ala Gln Lys Ala Asp Ala Gln Arg	
340	
1550	GCA GCC GGA TGG CTA ATC GCC GGG GGA CAA CCC GAC CGT GCC GTC TCG GCC GCA CTC GCC
Ala Ala Asp Arg Ile Ser Val Phe Val Pro Ala Val Leu Val Ile Ala Val Ser Ala Ala Leu Thr	
360	
1600	CTA GCC GAC CGG ATC TCC TCG GTG TTT GTT GCT GTG TTG GTT ATC GCG GCA CTA ACC
Leu Ala Asp Arg Ile Ser Val Phe Val Pro Ala Val Leu Val Ile Ala Val Ser Ala Ala Leu Thr	
380	
1650	GCA GCC GGA TGG CTA ATC GCC GGG GGA CAA CCC GAC CGT GCC GTC TCG GCC GCA CTC GCC
Ala Ala GLY Trp Leu Ile Ala Gly Gln Pro Asp Arg Ala Val Ser Ala Ala Leu Ala	
400	
1700	GTG CTT GTC ATC GCC TGC CCG TGT GCC CTC GGA ATA TTT CTG AAG GGC TAC AAA TCG TGT GTC
Val Leu Val Ile Ala Cys Pro Cys Ala Leu GLY Leu Ala Thr Pro Thr Ala MET MET Val	
420	
1750	GGC TCT GGT CGC GGT GCC CAG CTC GGA ATA TTT CTG AAG GGC TAC AAA TCG TGT GAG GCC
Ala Ser GLY Arg GLY Ala Gln Leu GLY Ile Phe Leu Lys GLY Tyr Lys Ser Leu Glu Ala	
440	
1800	ACC CGC GCG GTG GAC ACC GTC GTC TTC GAC AAG ACC GGC ACC CTG ACG ACG GGC CGG CTG
Thr Arg Ala Val Asp Thr Val Val Phe Asp Lys Thr GLY Thr Leu Thr GLY Arg Leu	
460	
1850	CAG GTC AGT GCG GTG ACC GCG GCA CCG GGC TGG GAG GCC CAG CTC GCC TTG GCC
Gln Val Ser Ala Val Thr Ala Ala Pro GLY Trp Glu Ala Asp Gln Val Leu Ala Leu Ala	

Fig. 4C

1950	GGG ACC GTG GAA GCC GCG TCC GAG CAC TCG GCG CTC GCG ATC GCC GCG GCA ACG ACT	Ala Thr Val Glu Ala Ala Ser Glu His Ser Val Ala Leu Ala Ile Ala Ala Thr Thr
480		
2000	CGG CGA GAC GCG GTC ACC GAC TTT CGC GCC ATA CCC GGC CGC GTC AGC GGC ACC GTG	Arg Arg Asp Ala Val Thr Asp Phe Arg Ala Ile Pro Gly Arg Gly Val Ser Gly Thr Val
500		
2050	TCC CGG CGG GCG GTA CGG GTG GGC AAA CCG TCA TGG ATC GGG TCC TCG TCG TGC CAC CCC	Ser Gly Arg Ala Val Arg Val Gly Lys Pro Ser Trp Ile Gly Ser Ser Cys His Pro
520		
2100	AAC ATG CGC GCG CGG CGG CAC GCC GAA TCG CTC GGT GAG ACG GCC GTA TTC GTC GAG	
	Asn MET Arg Ala Ala Arg Arg His Ala Glu Ser Leu Gly Glu Thr Ala Val Phe Val Glu	
540		
2150	GTC GAC GGC GAA CCA TGC GGG GTC ATC GCG GTC GAC GCC GTC AAG GAC TCG GCG CGA	
	Vai Asp Gly Glu Pro Cys Gly Val Ile Ala Val Ala Asp Ala Val Lys Asp Ser Ala Arg	
560		
2200	GAC GCC GTG GCC GCG CTG GGT CGT GGT CTG CGC ACC ATG CTC TTG ACC GGT GAC AAT	
	Vai Asp Gly Val Glu Ala Ala Val Ala Asp Arg Gly Leu Arg Thr MET Leu Leu Thr Gly Asp Asn	
580		
2250	CCC GAA TCG GCG GGC GCG GTC GCT ACT CGC GGC ATC GAC GAG GTG ATC GCC GAC GAT	
	Pro Glu Ser Ala Ala Val Ala Val Ala Thr Arg Val Gly Ile Asp Glu Val Ile Ala Asp Ile	
600		
2300	CTG CCG GAA GGC AAG GTC GAT GTC ATC GAG CAG CTA CGC GAC CGC CGA CAT GTC GTC GCC	
	Leu Pro Glu Gly Lys Val Asp Val Ile Glu Gln Leu Arg Asp Arg Gly His Val Val Ala	
620		
2350	ATG GTC GGT GAC GGC ATC AAC GAC GGA CCC GCA CTC GTC GCG CGT GCT GTC ATG GCC	
	MET Val Gly Asp Gly Ile Asn Asp Gly Pro Ala Leu Ala Arg Ala Asp Leu Gly MET MET Ala	
640		
2450		
2400		

Fig. 4D

ATC GGG CGC GGC ACG GAC GTC GCG ATC GGT GCC GAC ATC ATC TTG GTC CGC GAC CAC	2500
Ile Gly Arg Gly Thr Asp Val Ala Ile Gly Ala Ala Asp Ile Ile Leu Val Arg Asp His	
660	
CTC GAC GTT GTA CCC CTT GCG C ^{TT} GAC CTG GCA AGG GCC ACG ATG CGC ACC GTC AAA CTC	2550
Leu Asp Val Val Pro Leu Ala Leu Asp Leu Ala Arg Ala Thr MET Arg Thr Val Lys Leu	
680	
	2600

AGC TTG CCG TTG CGC AAA TTT GGG CGA TAC CCG CTA GGC TGC GGA ACC GTC GGT GGG CCA
Ser Leu Arg Leu Arg Lys Phe Gly Arg Tyr Pro Leu Gly Cys Gly Thr Val Gly Gly Pro
740 750

CAA ATG ACC GCG CCG TCG TCC GCG TGA TGC GGT GTC GGG CAAC ACG ATAT CGG GCT CAG CGG GAC CGCA
Gln MET Thr Ala Pro Ser Ser Ala TER
761

3250 CGCCCGGGCGGATCC

Fig. 4E

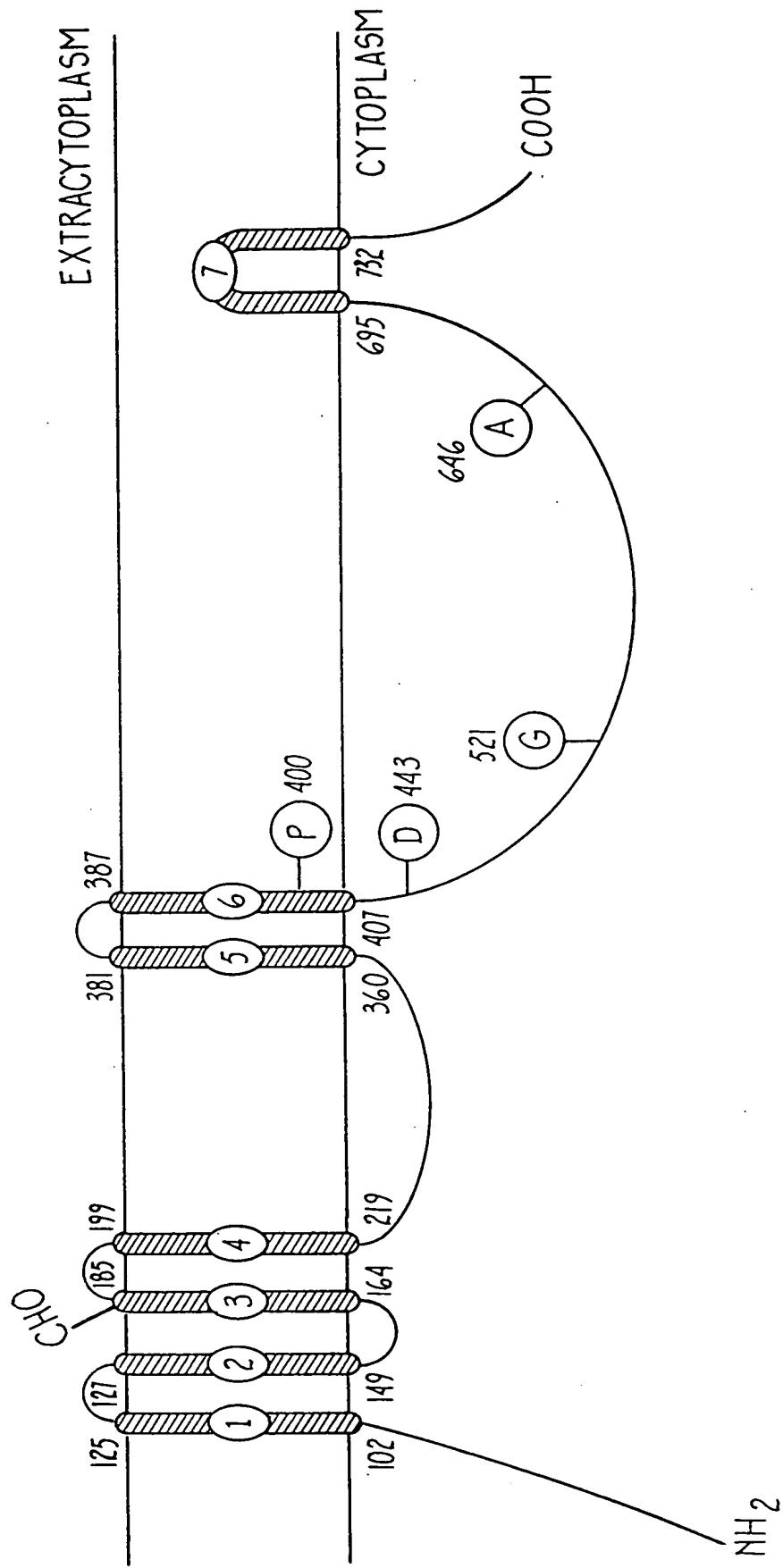


Fig. 5

Fig. 6C. A photograph of the same sample as in Fig. 6B, but taken with a lower current.

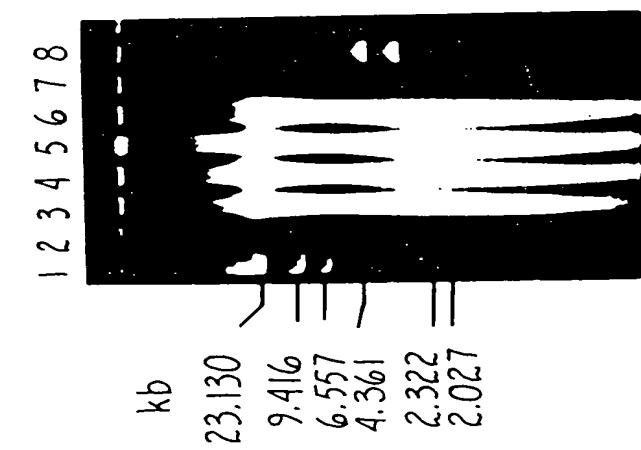


Fig. 6A

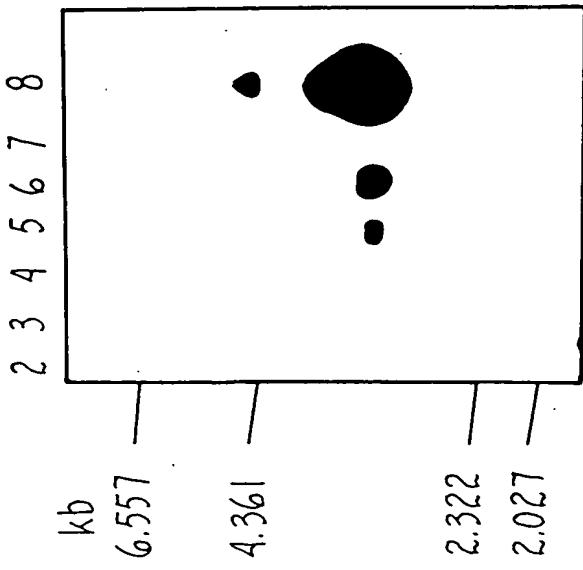


Fig. 6B